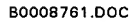


Sisson, Bradley

From: KBKing@MBF-LAW.com
Sent: Thursday, July 13, 2000 10:24 AM
To: bradley.sisson@uspto.gov
Subject: FW: Proposed Amendments for U.S. Patent Application Serial No. 09 /475,958; Bitner et al.
CELL CONCENTRATION AND LYSATE CLEARANCE USING PAR AMAGNETIC
PARTICLES(Docket No. 16026-9038)



FILE COPY

-----Original Message-----

From: King, Karen B.
Sent: Thursday, July 13, 2000 9:03 AM
To: 'bbradley.sisson@uspto.gov'
Subject: Proposed Amendments for U.S. Patent Application Serial No. 09/475,958; Bitner et al. CELL CONCENTRATION AND LYSATE CLEARANCE USING PARAMAGNETIC PARTICLES(Docket No. 16026-9038)

Examiner Sisson -

Attached hereto please find proposed claim amendments for claims 1, 8 and 21 of U.S. Patent Application No. 09/475,958. We look forward to discussing the proposed amendments with you.

<<B0008761.DOC>>

Sincerely yours,

Karen B. King
MICHAEL BEST & FRIEDRICH LLP
One South Pinckney St.
P.O. Box 1806
Madison, WI 53701-1806

Direct Dial: (608) 283-0110
Firm Phone: (608) 257-3501
FAX: (608) 283-2275
EMAIL: <mailto:kbking@mbf-law.com>
Firm Homepage: <http://www.mbf-law.com>

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PROPOSED AMENDMENTS FOR
U.S. Patent Application Serial No. 09/475,958
CELL CONCENTRATION AND LYSATE CLEARANCE
USING PARAMAGNETIC PARTICLES
(Docket No. 16026-9038)
DATE GENERATED: 7/12/00

We claim:

1. A method of using magnetic particles to concentrate or harvest cells, comprising the steps of:

- (a) combining cells with magnetic particles, under conditions wherein the cells selectively adsorb directly to the particles thereby forming a complex [form a complex with the magnetic particles], wherein said magnetic particles are selected from the group consisting of (1) pH dependent ion exchange particles and (2) silica magnetic particles consisting essentially of a magnetic core coated with a siliceous oxide having a hydrous siliceous oxide adsorptive surface; and
- (b) isolating the complex from the solution by application of magnetic force.

8. A method of clearing a solution of disrupted biological material, according to steps comprising:

- (a) providing a solution comprising a disrupted biological material;
- (b) combining the solution with second magnetic particles under conditions wherein the disrupted biological material selectively adsorbs directly to the particles, thereby forming [forms] a complex [with the second magnetic particles], wherein said magnetic particles are selected from the group consisting of (1) pH dependent ion exchange particles and (2) silica magnetic particles consisting essentially of a magnetic core coated with a siliceous oxide having a hydrous siliceous oxide adsorptive surface; and
- (c) separating the complex from the solution by application of magnetic force.

21. A method of isolating a target nucleic acid from a disrupted biological material, comprising the target nucleic acid, a first non-target material, and a second non-target material, comprising the steps of:

- (a) combining a solution of the disrupted biological material with first magnetic particles under conditions wherein the first non-target material selectively adsorbs directly to the particles, thereby forming [forms] a first complex [with the first magnetic particles], wherein said magnetic particles are selected from the group consisting of (1) pH dependent ion exchange particles and (2) silica magnetic particles consisting essentially of a magnetic core coated with a siliceous oxide having a hydrous siliceous oxide adsorptive surface;
- (b) separating the first complex from the solution of disrupted biological material by application of magnetic force, forming a cleared solution comprising the target nucleic acid and the second non-target material;
- (c) combining the cleared solution with second magnetic particles under conditions wherein the target nucleic acid adsorbs to the second magnetic particles, forming a second complex;
- (d) isolating the second complex from the cleared solution;
- (e) washing the second complex by combining the second complex with a wash solution and separating the second complex from the wash solution by magnetic force; and
- (f) combining the washed second complex with an elution solution, under conditions wherein the target material is desorbed from the second magnetic particles.